SKY*Light*™ Nuclear Camera Platform

Setting new standards
in molecular imaging

PHILIPS

SKYLight

The next generation
of imaging platforms

A VISION WITHOUT LIMITATIONS

We started with a clean slate and no preconceived notions of what a nuclear camera could or could not do. We would not tolerate any of the old constraints associated with conventional floor-mounted systems. The key was a revolutionary concept that could image patients anytime, on any bed, in any position. Breaking all the old rules associated with camera designs, the SKY*Light*™ concept was born.

ABOVE THE CROWD

The introduction of the SKY*Light* nuclear camera platform represents a breakthrough product that is truly above the crowd. SKY*Light* breaks all the old rules built around conventional floor-mounted gantries and integrates the advanced feature sets that today's busy departments require. But SKY*Light* goes beyond the possible and prepares you for tomorrow's clinical and throughput needs as well.

Introducing SKY*Light*, the next generation of nuclear imaging platforms. SKY*Light*, the industry's first and only gantry-free camera, represents a giant leap forward in the use of advanced robotics, resulting in unprecedented imaging flexibility and positioning accuracy.

Delivering innovation, improving

BEYOND THE POSSIBLE

SKY*Light* has taken the first step into 21st century nuclear imaging by incorporating the world's first and only gantry-free camera platform with a new state-of-the-art JAVA™-based acquisition system. The key to SKY*Light's* unique capabilities is "Free Dimensional" imaging. There is no longer a fixed location in the imaging room for the patient. There is no longer a need to use only one imaging table, or a table at all, for that matter. There is no longer a need to turn away patients who cannot move, and no need to roll heavy carts around the room to change collimators. SKY*Light* addresses all these issues and more. SKY*Light* is a revolution in how we do nuclear medicine.

IMAGING FLEXIBILITY

SKY*Light's* "Open Floor" design means easier patient loading and transport in and out of the imaging room. The "Open Floor" design leaves nothing on the floor other than the imaging table. There are no obstacles such as a gantry, collimator carts, or cables to maneuver wheelchairs or gurneys around. Even the acquisition terminal uses a flat-screen monitor mounted to the wall.

"Mega Body" mode allows both detectors to be used side-by-side in the same orientation for large-area planar imaging. The SKY*Light* design even allows the detectors to reach all the way to the floor for unique scanning situations.

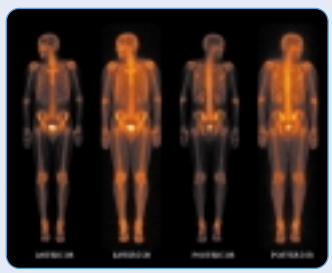
SKY*Light's* lightweight table, SKY*Table*™, incorporates the gating device and drops to a height below that of a wheelchair, allowing for easy patient loading. The table can accommodate patients up to 500 pounds with less than 5.5% table attenuation.

PATIENT ACCESS

Patient access during an imaging procedure is crucial, especially with a critically ill patient who may be on life-support equipment. Gantry-free imaging assures excellent patient access from just about any orientation. Additionally, "Free Dimensional" imaging allows for easy positioning of ancillary devices such as IV pumps and respirators without the need to work them around a moving gantry. Easier positioning of these devices simplifies setup and improves access to the patient during imaging.

Unsurpassed access to the patient allows easy marking during lymphoscintigraphy procedures.

Mega Body mode allows highest throughput planar imaging.



The SKY*Table* pallet is only 0.2" thick, yet supports a 500 lb. patient load.

patient care

THROUGHPUT

A typical day in most nuclear medicine departments consists of a mix of SPECT and planar procedures. The SKY*Light* detectors are not attached to a gantry, which allows each detector to be angulated independently for imaging of two patients at the same time. SKY*Light's* unique "DualPlanar" imaging option will allow the simultaneous acquisition of two different patients in planar mode using different acquisition parameters.

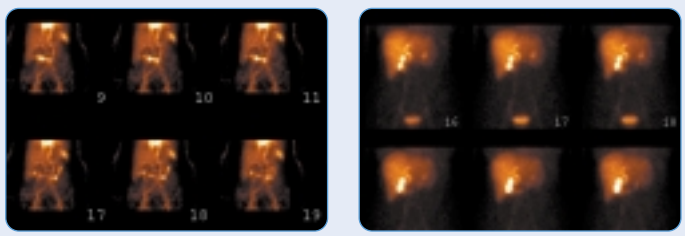
SKY*Light* also incorporates a fully automated collimator exchange system. Selecting the collimators for exchange is as simple as touching the desired collimators on the Midas™ touch screen. The entire process is completed automatically in less than three minutes. Collimators not in use are stored in holders on the back wall of the system.

CONCURRENT IMAGING

Concurrent Imaging has revolutionized nuclear medicine. Now, a single data acquisition produces as many as fifteen different image sets configured around various agent and imaging parameters. The key: easily implemented, physician-specified protocols encompassing a virtually infinite array of variables. The result: superior image quality and more comprehensive data, obtained in less time than ever before.

Advanced data stream acquisition technology enables the simultaneous application of both standard and alternate protocols within the same time period. Analysis and comparison of a spectrum of diverse, optimized images based on different agents and/or variations in imaging parameters — such as zoom, matrix, data type, and stop criteria — provide a more accurate quantification method leading to appropriate treatment recommendations.

DualPlanar mode allows simultaneous dual patient planar imaging.



DualPlanar imaging capability allows the highest throughput capability for planar procedures. SKY*Light* can be used as two simultaneous and independent single detector cameras. Imaging may be accomplished on any type of bed.

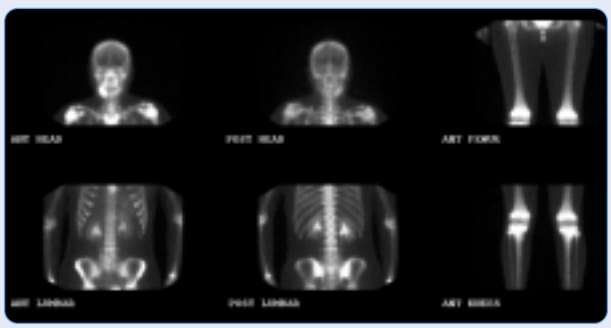
Taking technology
to a new level

EASY TO USE

Operator usability was always kept in the forefront of the design process. From the Midas touch screen for simple "one touch" selection of acquisition protocols to a new graphic user interface on the acquisition computer, even the casual observer will quickly note the high level of attention that has been paid to usability.

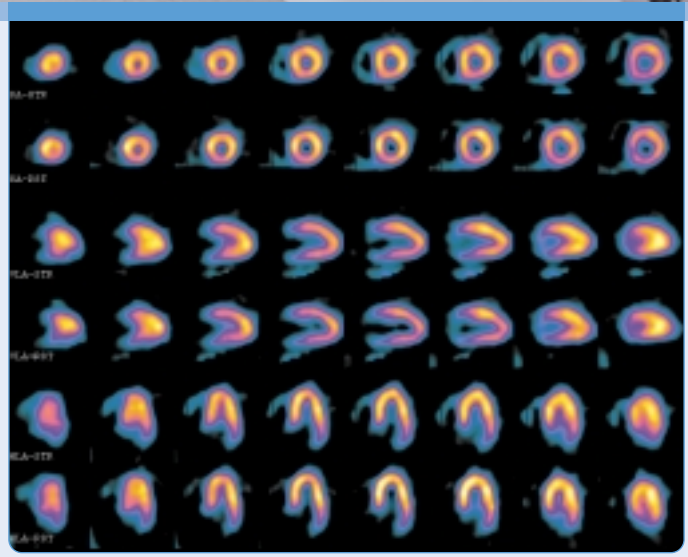
The new acquisition system, JETStream™, is a state-of-the-art JAVA-based nuclear medicine acquisition station. This unique product offers dramatic improvements in workflow, user interface, and flexibility when compared to existing systems. The operator is never more than a click away from any key function, anytime. Patients can be added to the Scheduler and linked to any protocol or workflow path. Launching the acquisition is reduced to three steps. JETStream incorporates a flat-screen monitor and is mounted with a keyboard to a wall within direct line of sight to the patient.

The Midas touch screen allows the operator to interact with the system for protocol selection and collimator exchange without ever leaving the patient's side. The Midas touch screen can also function as a digital version of the wireless hand control.



The openness and access with SKY*Light* make this the ideal solution for the most challenging patients: pediatric, critically ill, short-of-breath, claustrophobic.

Highest efficiency 90° Cardiac SPECT acquisition is free from resolution loss due to dead space. Gantry-free design allows close detector positioning without claustrophobia.



Philips Medical Systems is part of Royal Philips Electronics

INTERESTED?

Would you like to know more about our imaginative products? Please do not hesitate to contact us. We would be happy to provide specific information about our products and services, or put you on our mailing list for news about new product developments, upcoming events or for our clinical journal, Medicamundi. We would be glad to hear from you.

On the web
www.medical.philips.com

Via e-mail
medical@philips.com

By fax
+31 40 27 64 887

By postal service
Philips Medical Systems
Global Information Center
I.B.R.S. / C.C.R.I. Numéro 11088
5600 VC Eindhoven
Pays-Bas / The Netherlands
(no stamp required)

Asia
Regional Office Asia Pacific
Tel: +852 2821 5888
Fax: +852 2527 6727

Europe
Regional Office Netherlands
Tel: +31 40 27 62 614
Fax: +31 40 27 64 250

Germany / Eastern Europe
Regional Office Germany
Tel: +49 1805 767 222
Fax: +49 1805 767 229

Middle East / Africa
Regional Office Dubai
Tel: +971 4 3095 247
Fax: +971 4 3095 200

Latin America
Regional Office Brazil
Tel: +55 11 5188 0764
Fax: +55 11 5188 0761

North America
Regional Office USA
Tel: +1 425 487 7000
Fax: +1 425 487 8130

© Royal Philips Electronics N.V. 2003
All rights are reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright holder.

Philips Medical Systems Nederland B.V. reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

Printed in USA
4535 983 03422/882 2003-11